

Title (en)  
INTEGRATION BETWEEN 3D MAPS AND FLUOROSCOPIC IMAGES

Title (de)  
INTEGRATION ZWISCHEN 3D-KARTEN UND FLUOROSKOPISCHEN BILDERN

Title (fr)  
INTEGRATION ENTRE DES CARTES 3D ET DES IMAGES FLUOROSCOPIQUES

Publication  
**EP 3037038 B1 20171122 (EN)**

Application  
**EP 15201537 A 20131018**

Priority

- US 201261715935 P 20121019
- US 201314045246 A 20131003
- EP 13189397 A 20131018

Abstract (en)  
[origin: EP2722018A2] A coordinate system registration module (62), including radiopaque elements (102) arranged in a fixed predetermined pattern and configured, in response to the radiopaque elements generating a fluoroscopic image, to define a position of the module in a fluoroscopic coordinate system of reference. The module further includes one or more connections configured to fixedly connect the module to a magnetic field transmission pad (50) at a predetermined location and orientation with respect to the pad, so as to characterize the position of the registration module in a magnetic coordinate system of reference defined by the magnetic field transmission pad.

IPC 8 full level  
**A61B 6/03** (2006.01); **A61B 34/20** (2016.01); **A61B 90/00** (2016.01)

CPC (source: EP US)  
**A61B 5/0035** (2013.01 - US); **A61B 5/0522** (2013.01 - US); **A61B 5/062** (2013.01 - US); **A61B 5/7425** (2013.01 - US);  
**A61B 6/02** (2013.01 - EP US); **A61B 6/4417** (2013.01 - US); **A61B 6/4441** (2013.01 - US); **A61B 6/463** (2013.01 - US);  
**A61B 6/485** (2013.01 - US); **A61B 6/5247** (2013.01 - US); **A61B 6/54** (2013.01 - US); **A61B 90/37** (2016.02 - EP US);  
**A61M 25/0108** (2013.01 - US); **A61M 25/0127** (2013.01 - US); **A61B 2034/2051** (2016.02 - EP US); **A61B 2090/364** (2016.02 - EP US);  
**A61B 2090/376** (2016.02 - EP US); **A61B 2090/3954** (2016.02 - EP US); **A61B 2090/3966** (2016.02 - EP US)

Cited by  
US12063345B2; US11980506B2; US12044856B2; US12044858B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2722018 A2 20140423**; **EP 2722018 A3 20140813**; **EP 2722018 B1 20170308**; **EP 2722018 B2 20200101**; AU 2013245533 A1 20140508;  
AU 2013245533 B2 20180614; AU 2018202088 A1 20180419; AU 2018202088 B2 20190711; CA 2830552 A1 20140419;  
CA 2830552 C 20221004; CN 103767683 A 20140507; CN 103767683 B 20181113; EP 3037038 A1 20160629; EP 3037038 B1 20171122;  
EP 3175815 A1 20170607; EP 3175815 B1 20231213; EP 3175815 C0 20231213; IL 228959 A 20170529; IL 252240 A0 20170731;  
IL 252240 B 20180531; JP 2014089186 A 20140515; JP 6411020 B2 20181024; US 10441236 B2 20191015; US 20141114173 A1 20140424

DOCDB simple family (application)  
**EP 13189397 A 20131018**; AU 2013245533 A 20131018; AU 2018202088 A 20180323; CA 2830552 A 20131018;  
CN 201310491716 A 20131018; EP 15201537 A 20131018; EP 17150588 A 20131018; IL 22895913 A 20131017; IL 25224017 A 20170511;  
JP 2013217073 A 20131018; US 201314045246 A 20131003